

無語作成の図 (長崎市立博物館選) (甲斐宗平綱的新による当時の推定図)

FIG. 1 (PRIOR ART)

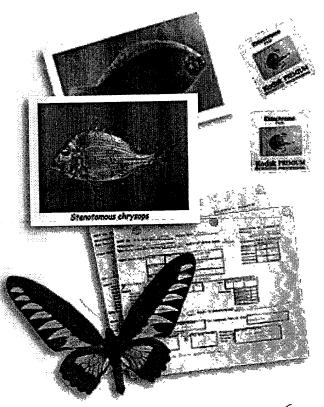
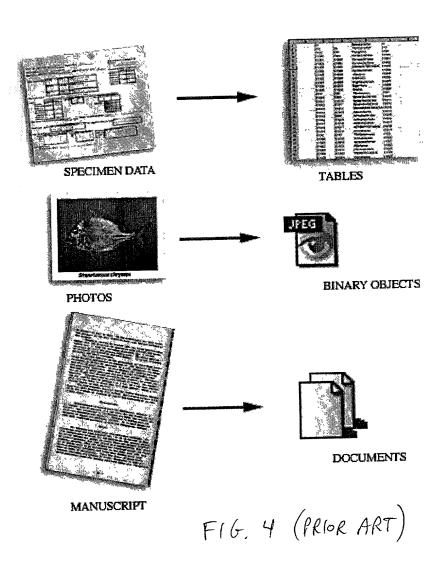


FIG. 2 (PRIOR ART)





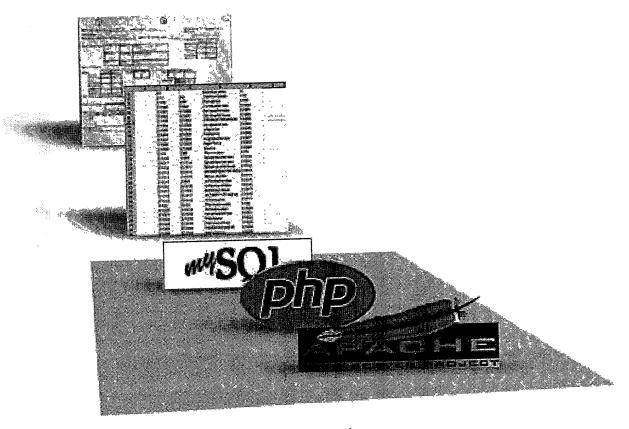


FIG. 5 (PRIOR ART)

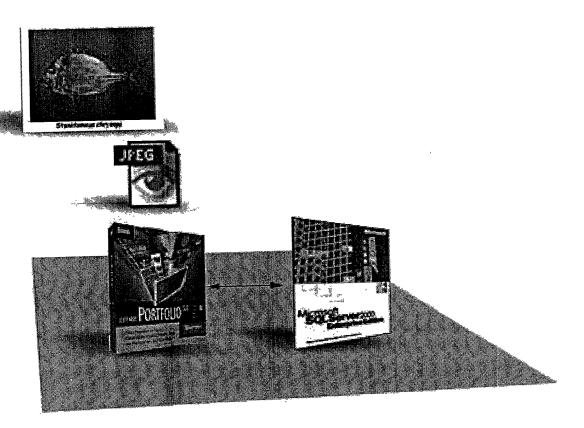


FIG. 6 (PRIOR ART)

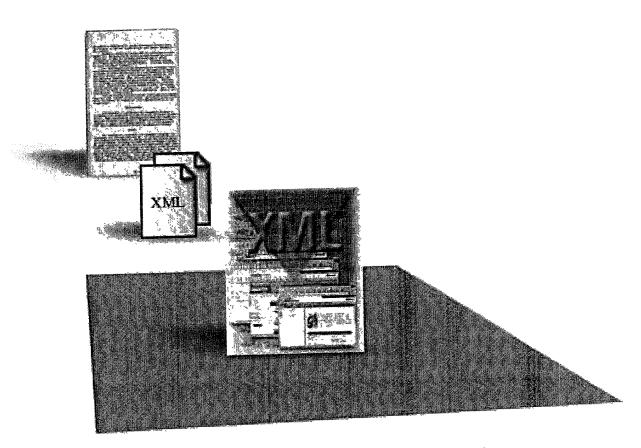
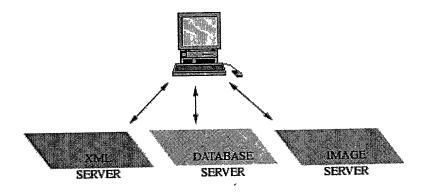


FIG. 7 (PRIOR ART)



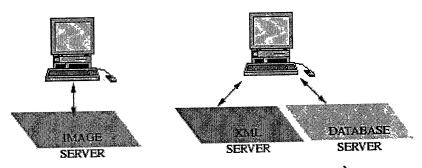


FIG. 8 (PRIOR ART)

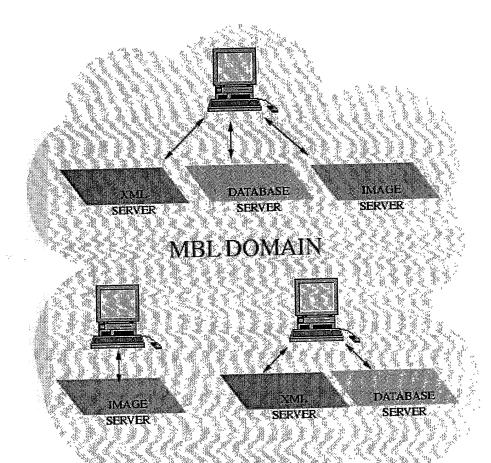
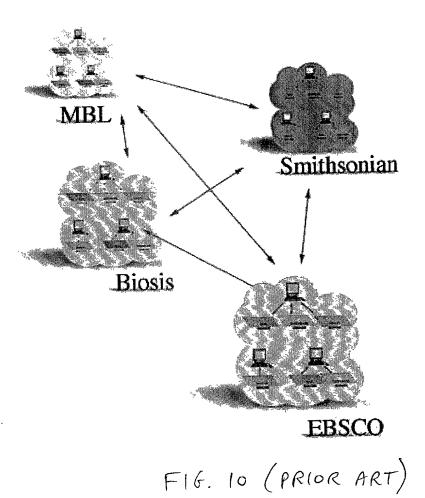
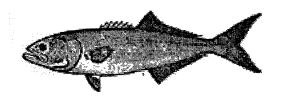


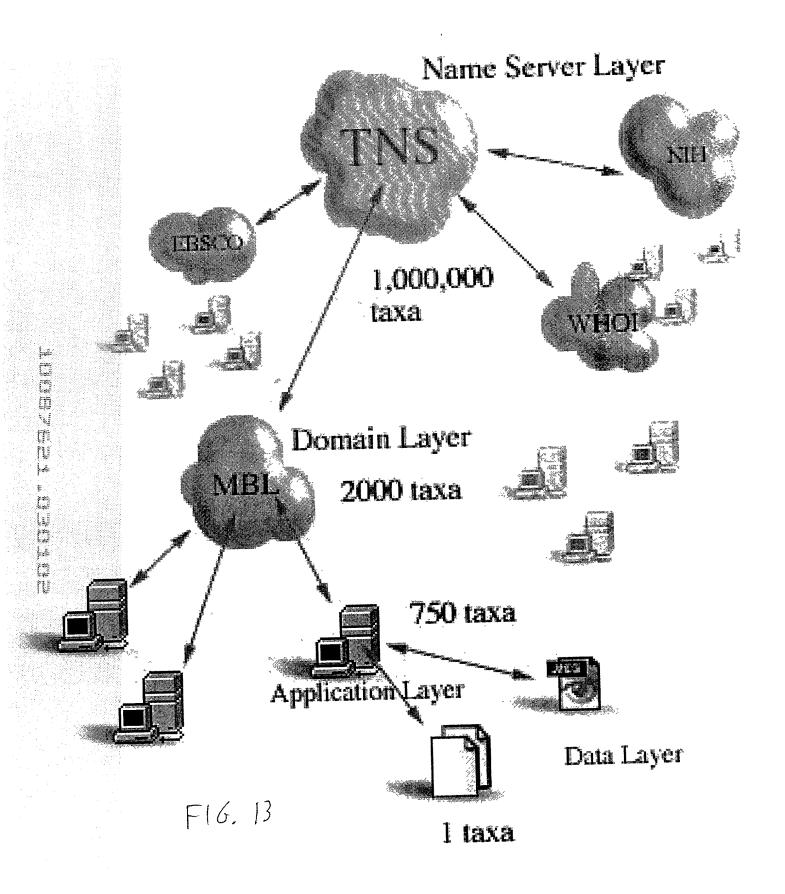
FIG. 9 (PRIOR ART)

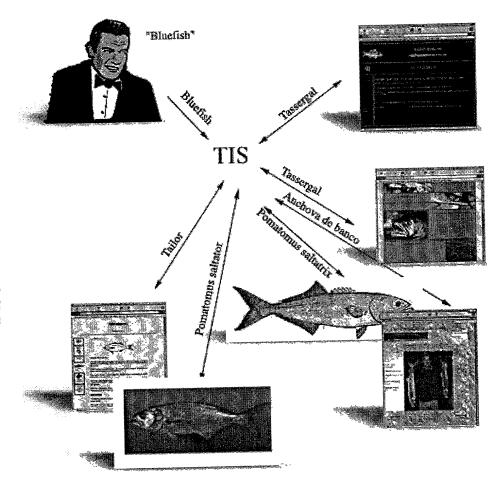




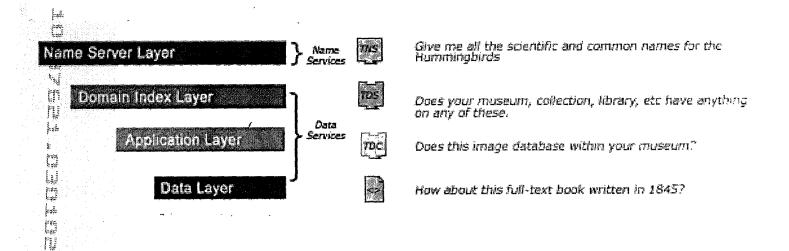
F16. 11

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Eukaryote
Opisthokonts
Choanoflagellates And Animals
Metazoa
Chordata
Vertebrata
Gnathostomata
Osteichthyes
Actinopterygii
Perciformes
Pomatomidae
Pomatomus
Pomatomus saltator
Margulis
Animalia
Chordata
Craniata
Gnathostomata
Osteichthyes
Actinopterygii
Perciformes
Pomatomidae
Pomatomus
Pomatomus saltator





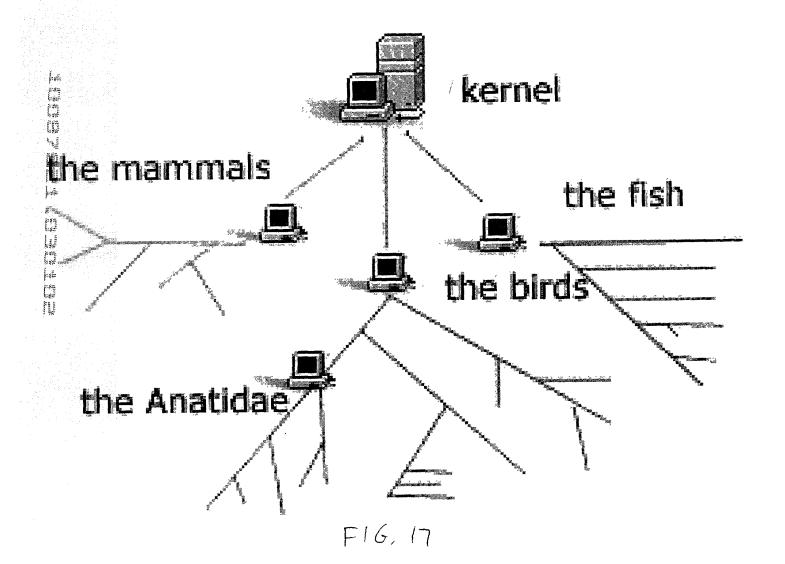
F16, 14



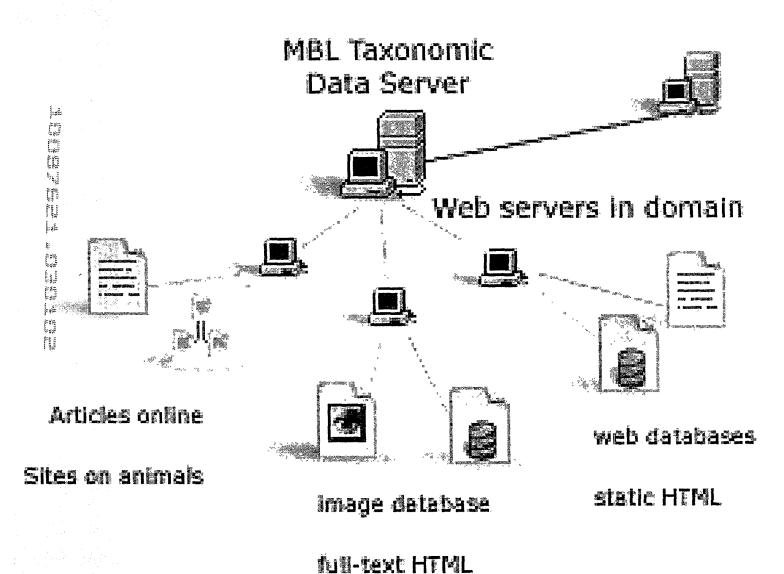
F16.15

Scientific names for the bluefish, Pomatomus saltator Cheilodipterus heptacanthus Cheilodipterus saltatrix Chromis epicurorum Gasterosteus saltatrix Gonenion serra Lopharis mediterraneus Perca lophar Pomatomus pedica Pomatomus saltator Pomatomus saltatrix Pomatomus skib Scomer sypterus Sparactodon nalnal Sypterus pallasii Temnodon conidens Temnodon saltator Temnodon tubulus

Other names Bluefish (FAO/English) Tassergal (FAO/French) Anjova (FAO/Spanish) Sinikala (Finnish) Blaufisch (German) Gofári (Greek) Pesce serra (Italian) Amikiri (Japanese) Anchova (Portuguese) Plitica (Serbo-Croat) Strijelka skakusa (Serbo-Croat) Lüfer (Turkish) Blue-fish (English) Anchova (Portuguese) Bluefish (AFS/English) Shad (English) Elf (English) Tekwaya (Arabic) Tekwa (Arabic) Tasergal (Polish) Teleskopabborre (Swedish) Dyphavsabbor (Norwegian) Enchova (Portuguese) Tailor (English) Skipjack (English) Anchova de banco (Spanish) Elwe (Afrikaans)



# Taxonomic Mame Server provides expert name and classification data



F16.18

Function name

What it does

classifications();

returns the canonical list of classifications from the name

server

\$1)

me(\$myID,\$d,\$type, returns the name of entity myID according to the type

attribute provided

name\_types(\$d);

returns a \$d delimited array of n ame types such as

"English, French, ICZN-Current, Synonym, Misspelling, etc.

chroot(\$myID,

\$classification)

sets the name server root of the application to \$myID. Sets parent of myID to zero. Allows developers of taxa specific

applications to only use relevant parts of the classification

names(\$myID,\$d,

\$order,\$1)

returns an ary delimited by string, \$d

\$order,\$1)

children(\$myID,\$d, returns an array of the children on \$myID according to the \$classification,\$type, classification \$classification. Other options include the name type to return, sort order, etc.

parent(\$myID,\$d, \$classifcation,\$type,

\$order,\$1)

list\_my\_children

Ancestry of \$myID with many output options

(\$myID)

A recursive function for dumping tree information.

get\_name(\$myID, \$name\_type, \$date,ref)

Return a specific name for a taxa such as the French form or the currently accepted name or a junior synonym.

classify(\$myID, \$classification, \$length)

Returns an array of ancestry for a given classification to a given number of steps relative to the taxa. A length of 0 returns to the tree root.

names(\$myID, \$fields)

Returns an array of all names for a given taxonomic entity.

Fields returned in the array can be specified.

dump(\$myID, \$delimiter,\$fields, \$classification)

Dumps from myID down in spreadsheet form

pad(\$myID,\$s, \$class,\$root) -

Delimiters used to pad the taxonomic level type. Ex (pad (AR201,"=-","1C",5) outputs "=-=-=-" because according to classification "1C" this entity (a genus) would be indented six places to correspond to the six levels from the starting point of level "5" (corresponding to "Phylum")

from the root of classification 1C.

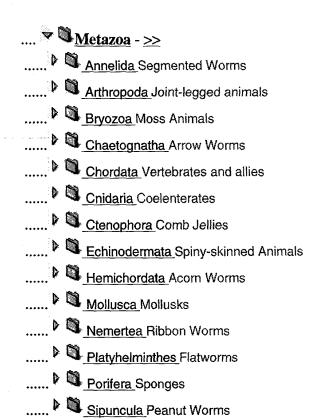


#### MARINE BIOLOGICAL LABORATOR

directory

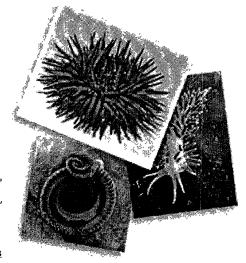
site map

#### Marine Animals at the MBL



Find

This database represents approximately 200 species of marine organisms available in our Marine Resources Center and collected by the Aquatic Resources Division. Most of these organisms are available for purchase by qualified educational institutions and researchers.



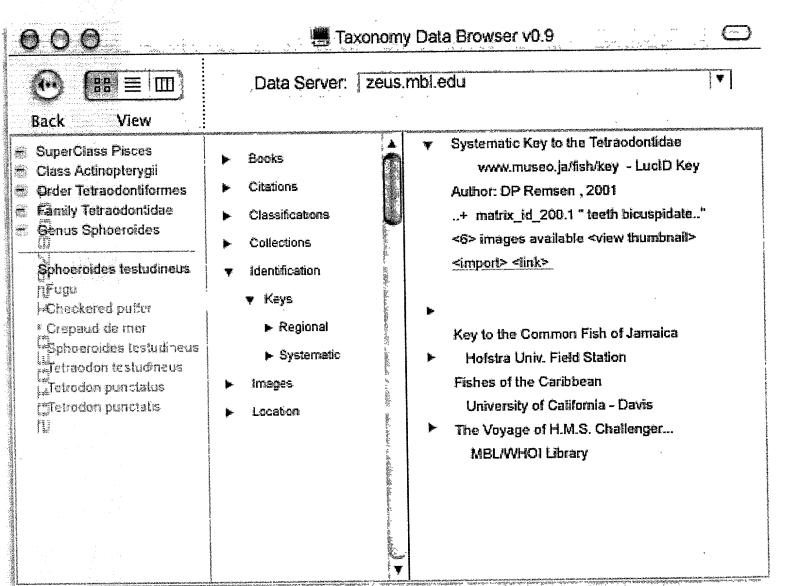
This program uses the Taxonomic Name Server for name authority

Expand from Metazoa down. (560 taxa)

Server numbers

F16, 20

Click on grouping at left for a listing of species



1

F16.21

Cythere crisputa, Brady. Obtained also at Station 187 and Port Jackson.

Hang Kong.

- . cymbα, Brady. Obtained also at Station 233ε, 15 fathoms. Recorded from Hong Kong.
- goujoni, Brady. Obtained also at Station 187 and Port Jackson.
- ,, darwini, Brady. Obtained also at Station 2338, 15 fathoms. Recorded from Java.
  - cribriformis, Brady. Obtained at no other locality by the Challenger.
- Loxoconcha sinensis, Brady. Obtained also at Station 233s, 15 fathoms. Recorded from Hong Kong.

Bythocythere orientalis, Brady. Obtained also in Torres Strait.

Cytherella cingulata, Brady. Obtained also at Stations 187, 189, and Port Jackson.

#### Macnura (Spence Bate, Zool. pt. 52).

Alpheus rapax, Fabricius. One specimen (10 fathoms); obtained at no other locality by the Challenger.

Nauticaris univecedens, n.g., n.sp. One specimen; obtained at no other locality.

#### ANOMURA (Henderson, Zool. pt. 69).

1

Spiropagurus spiriger (De Haan). One specimen in shell of Pleurotoma (10 fathoms); for distribution see Torres Strait.

Porcellana serratifrons, Stimpson. One specimen (10 fathoms); obtained also in Arafura Sea.

Raphidopus ciliatus, Stimpson. One specimen (10 fathoms); obtained at no other locality by the Challenger. Recorded from Hong Kong.

# BEACHYURA (Miers, Zool. pt. 49).

Neptunus (Amphitrite) hastatoides (Fabricius). Several specimens (10 fathoms); obtained also at Stations 188, 2388, and Japan.

Goniosoma cruciferum (Fabricius). One specimen (7 fathoms); obtained at no other locality by the Challenger.

Arcania septemspinosa (Fabricius). Three specimens (10 fathoms); obtained also at Station 233B, 15 fathoms, and Japan.

Leucosia craniolaris (Linué). Two specimens (10 fathoms); obtained also at Stations 188, 190, and Japan.

Dorippe facchino (Herbst). One specimen (10 fathoms); obtained at no other locality by the Challenger.

#### GASTEROPODA (Watson, Zool. pt. 42).

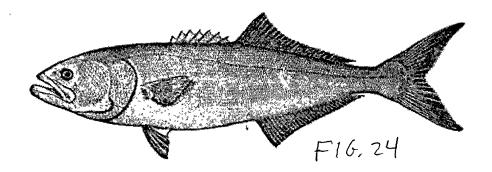
Pleurotoma (Surcula) tuberculata, Gray: (10 fathoms); obtained also in Arafura Sea.

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June, whereas they contain only smaller eggs after the early part of July. No individual, however, is actually known to have given birth to two broods in a single summer.

The sand shark, Carcharias littoralis, the most common shark at Woods Holl during the summer, so far as I know, has never been taken during the breeding season, all the individuals being apparently imma-

#### The Bluefish, *Pomatomus saltator*



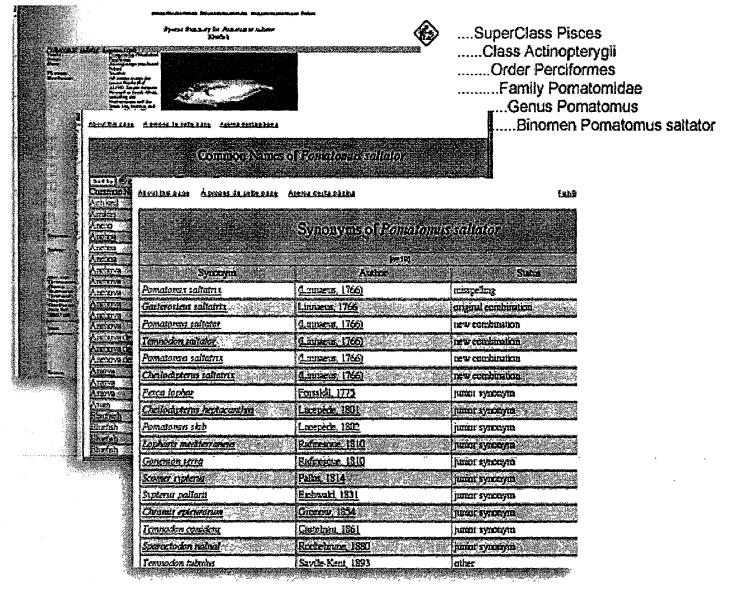
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				Gaster	mis epicurorum (Syn) rosteus saltatrix (Syn) Gonenion serra (Syn)
		frechtierskram (sernatume)	<b>24</b>		mediterraneus (Syn) Perca lophar (Syn)
		a (Commerce Vi	r=x0132amratamije sviljata		natomus pedica (Syn) atomus saltatrix (Syn)
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#### Classification Information



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Search for: Pomatomus saltatrix	*;	Search!		
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. 1. <u>Macrofauna description</u> [2]

Description of the Macrofauna in Plum Island Sound Macrofauna are abundant and diverse throughout the Plum Island Sound estuary. Twenty eight species of fish have been recorded in the brackish to marine areas and another 10 from the freshwater portion...

 http://ecosystems.mbl.edu/PIE/data/HTL/HTLDescription.htm (text/html) Wed, 19 Jul. 2000 15:11:39 GMT, 3406 bytes

2. No title [2]

DATE STATION STATE X STATE Y LAT LON SPECIES TOTAL WEIGHT 23-Sep-1993 HTL-PR-21 247524.8 944832.3 42.75263608 70.91949172 Alosa aestivalis 1 1.2 20-Oct-1993 HTL-PR-21 247524.8 944832.3 42.75263608 70.91949172 Apeltes quadracus 1 0.6 23-Nov-1993 HTL-P...

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3. No title [2]

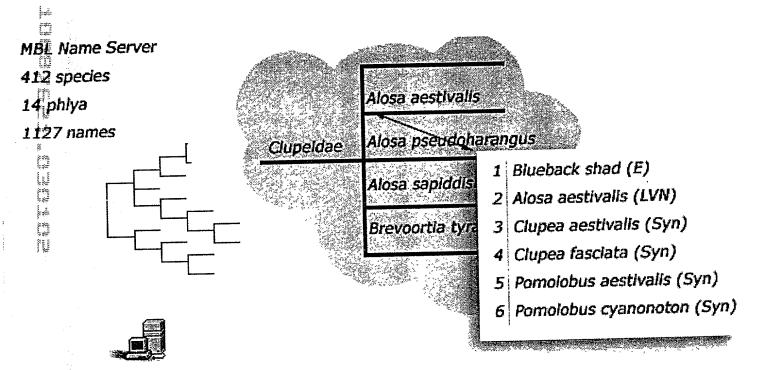
STATION STATE X STATE Y LAT LON SAL SITE NAME SCI NAME 15N 13C 34S HTL-SO-3(Knob) 257402.95 942546.27 42.73139029 70.79906604 30 MID sand shrimp Crangon septemspinosa 10.5 -16.3 8.6 HTL-SO-5(Sub Headquarters) 256334.1 945265.44 42.75594527 70.81184907...

http://ecosystems.mbl.edu/PIE/data/HTL/HTL-PR-Isotope.txt (text/plain) Wed, 19
Jul 2000 14:18:16 GMT, 8767 bytes

4. No title [2]

Plum Island Ecosystem Long Term Ecological Research (PIE-LTER) LMER Intercomparison Stable Isotope Data Set Updated 2/14/97 Organic matter Real/measured Forward model stable isotope data 8udgets stable...

http://ecosystems.mbl.edu/PIE/data/STP/STP-VA-OMInterIsotope.txt (text/plain)
 Wed, 19 Jul 2000 15:18:07 GMT, 20535 bytes



F16.29

SuperClass Pisces
Class Actinopterygii
Cycler Perciformes
Genus Pomatomidae
Genus Pomatomus
Binomen Pomatomus saltator

ames:
Bluefish (E)
Pomatomus saltator (LVN)
Cheilodipterus heptacanthus (Syn)
Cheilodipterus saltatrix (Syn)
Chromis epicurorum (Syn)
Gasterosteus saltatrix (Syn)

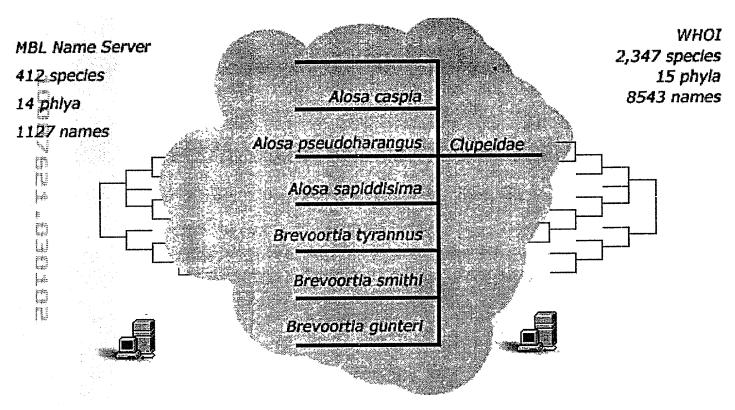
Links: Pomatomus saltator

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73482	F364	Cheiladipterus s	altatrix	Syn	F10	3337
73995	F364	Chramis epicura	num <sup>°</sup>	Syn		
81129	F364	Gasterosteus sa	litatrix	Syn	1 1	l
82464	F364	Gonenian sema		Syn	F364	
87746	F364	Lopharis medite	maneus	Syn	1,201	
94245	F364	Perca lophar		Syn		
96363	F364	Pomatomus per	dica	Syn	Classification:	C109
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F16,31



F16, 32

# Classification: ICLARM:FishBase ...SuperClass Pisces ...Class Actinopterygii ....Order Clupeiformes ....Family Clupeiclae .......Genus Brevoortia ......Binomen Brevoortia tyrannus lames: Atlantic menhaden (E) Brevoortia tyrannus (L) Clupea carolinensis (Syn) Clupea menhaden (Syn) Clupea neglecta (Syn)

Clupea tyrannus (Syn)

Links: Brevoonia tyrandus

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#### Woods Hole Oceanographic Institution

- \_Discovery: The Salt Marsh
- Mariner Library Catalog
- Oceanus Magazine: Oct 1983 Issue
- \_\_JASON Project, 1997 Fisheries Worldwide \_\_Laboratory.of Dr. Peter Cummins.

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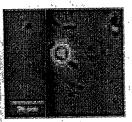
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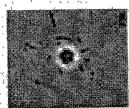
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**.** 

Amerika (Henderson, Zool. ps. 69).

Enveryopes algebrases, M. Edwards. Three specimens in stells of Lunthier and Meurotomo, obcained the 11 Statister 54, 105, 195. 

FISHES (Günther, Zool, pt. 57).

Ipnops murrayi, n.g., n.sp. Two specimens; obtained also at Stations 124 and 198. Only species of the genus.

> Ipnops murrayi Ipnops pristibrachium Ipnops agassizii Ipnoceps pristibrachium

Split in 1927 into Ipnops murrayi Ipnops pristibrachium

the Maria as ready la addition to the h alphoi co Ionthica a alphidmu emigez, nespecies (in the larger s g of a white exlour, o or: the yell-monthsonar Reciptary Protogou, alb i in Station, belonging to preside them of A new po Wikimoes-Subin writes

iso tura is not rer*j* kilotia | = Willengraa H sid thriups, some of w hiojodi wasi repowentei delicing from 1

### dTNS (distributed Taxonomic Name Server)

<u>Documentation</u> Jump to: <u>Vertebrates/Fish</u> <u>/Mammals/Birds/Reptiles</u>	Server Numbers Name	Find
Organisms (C1)		
<u>Eukaryote</u> (P1)		
2 Opisthokonts (P2673)		
3 Choanoflagellates And Anima	als (P2674)	
	,	
Gnathostomata (D1547)		
Osteichthyes (D1555)		
Class Actinopterygii (F192005)		
Order Perciformes (F180037)		
Family Pomatomidae	(F175393)	
Genus Pomatomus	(F103337)	
Binomen Pomaton	nus saltator <u>Entrez</u> (F364) ()	
Names:		
Bluefish (E)		
Pomatomus saltator (L)		
Cheilodipterus heptacanthus (Syn)		
Cheilodipterus saltatrix (Syn)		
Chromis epicurorum (Syn)		
Gasterosteus saltatrix (Syn)		
Gonenion serra (Syn)		
Lopharis mediterraneus (Syn)		
Perca lophar (Syn)		
Pomatomus pedica (Syn)		
Pomatomus saltatrix (Syn)		
Pomatomus skib (Syn)		
Scomer sypterus (Syn)		
Sparactodon nalnal (Syn)		
Sypterus pallasii (Syn)		
Temnodon conidens (Syn)		
Temnodon saltator (Syn)		
Temnodon tubulus (Syn)		
Chopper (E)		
Tailor (E)		
Snapper Blue (E)	= $($ $)$ $($ $)$	
Tassergal (FR)	F16,36A	
Anjova (Sp)		
Sinikala (Fi)		
Blaufisch (Gr)		
Gofári (Gk)		
Pesce serra (It)		
Amikiri (Jp)		
Anchova (Pr)		

Plitica (SC)

Strijelka skakusa (Serb)

Lüfer (Tk)

Blue-fish (E)

Anchova (Pr)

Shad (E)

Elf (E)

Tekwaya (Ar)

Tekwa (Ar)

Tasergal (Po)

Teleskopabborre (Sw)

Dyphavsabbor (No)

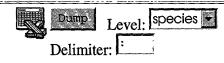
Enchova (Pr)

Skipjack (E)

Anchova de banco (Sp)

Elwe (Af)

Data Views: explode



SQL outputs: parent/child & columns: Pending

F16.36B

ille Name Seguraj	The full ICZN classification with "##" as a delimiter	tns -c,pv,a -name "Pomatomus saltatrix" -l-t##	EUKARYOTES##Living_Organisms Kingdom##	SubKingdom##OPISTHOKONTS ParvPhylum##Metazoa	Phylum##Chordata Subphylum ##Vertebrata	Superclass## Gnathostomata Class##Osteichthyes	subClass##Actinopterygii SuperClass##Pisces	Class##Actinopterygii Order##Perciformes
J.Dyftne Nama Server layer via ast axonomic Name Server	A table with a specified list of taxa levels and the preferred name	tns -c,pv,l "Kingdom,Phylum,Class,Order,Family, Genus,Species" -name "Pomatomus saltatrix"	Kingdom Eukaryota	hylum Chordata	Class Actinopterygii	Order Perciformes	Family Pomatomidae	Genus Pomatomus
ans served by the I	A string containing A the preferred name a	tns -pv -name (tr "Pomatomus "] saltatrix" -s G	<u> </u>	Pomatomus saltator Phylum	O	0	<u> </u>	G
ianous outout formans serve	A table of all names and their qualifiers	tns -nq "Name/Qualifier" -t- name "Pomatomus saltatrix"	Qualifier	(E)	dtator (L)	s (Syn)	(Syn)	(Syn)
OHEA SEA	A table of all r qualifiers	tns -nq "Name/Qualifier" -t- name "Pomatomus saltatrix"	Name	Bluefish	Pomatomus saltator (L)	Cheilodipterus heptacanthus	Cheilodipterus saltatrix	Chromis epicurorum

F16. 37A

## (C) 24 5 A	dey de e estatut de		15 e ulig	THE WIND STATE OF THE WATER OF TROUDER WINDS STATES.	In Name Season
Gasterosteus saltatrix	(Syn)		Species	saltator	Family##Pomatomidae Genus##Pomatomus Species##saltator
		ÖG	or the same	or the same table with common English names	
Gonenion serra	(Syn)	B & O T	tns -c,ce,l "Kingdom,Phylı Genus,Species" -name "Pomator	tns -c,ce,l "Kingdom,Phylum,Class,Order,Family, Genus,Species" -name "Pomatomus saltatrix" -t:	
Lopharis mediterraneus	(Syn)	<del>124</del>	Kingdom:	Kingdom: EUKARYOTES	
Perca lophar	(Syn)	<b>)</b>	Phylum:	Animals with Backbones	
Pomatomus pedica (Syn)	(Syn)		Class:	Ray-finned Fish	
Pomatomus saltatrix	(Syn)		Order:	Perches and Allies	
Pomatomus skib	(Syn)		Family:	Bluefish Family	
Scomer sypterus	(Syn)	en vibratia	Genus:	Bluefish	
Sparactodon nalnal (Syn)	(Syn)		Species:	Bluefish	
Sypterus pallasii	(Syn)				

F16.37B

TAKEN VACIOUS OU	Hepung Optoback Server log Under	Name Server aver ave a takonomic Name Server
Temnodon conidens	(Syn)	
Temnodon saltator (Syn)	(Syn)	
Temnodon tubulus (Syn)	(Syn)	
Chopper	(E)	
Tailor	(E)	
Snapper Blue	(E)	

F16,37C

EntityID Name URL

AR1001 Pomatomus saltatrix http://zeus.mbl.edu/ad.pi?

ZT7801 Stenotomuys.chrysops http://www.mbl.edu/animal..

